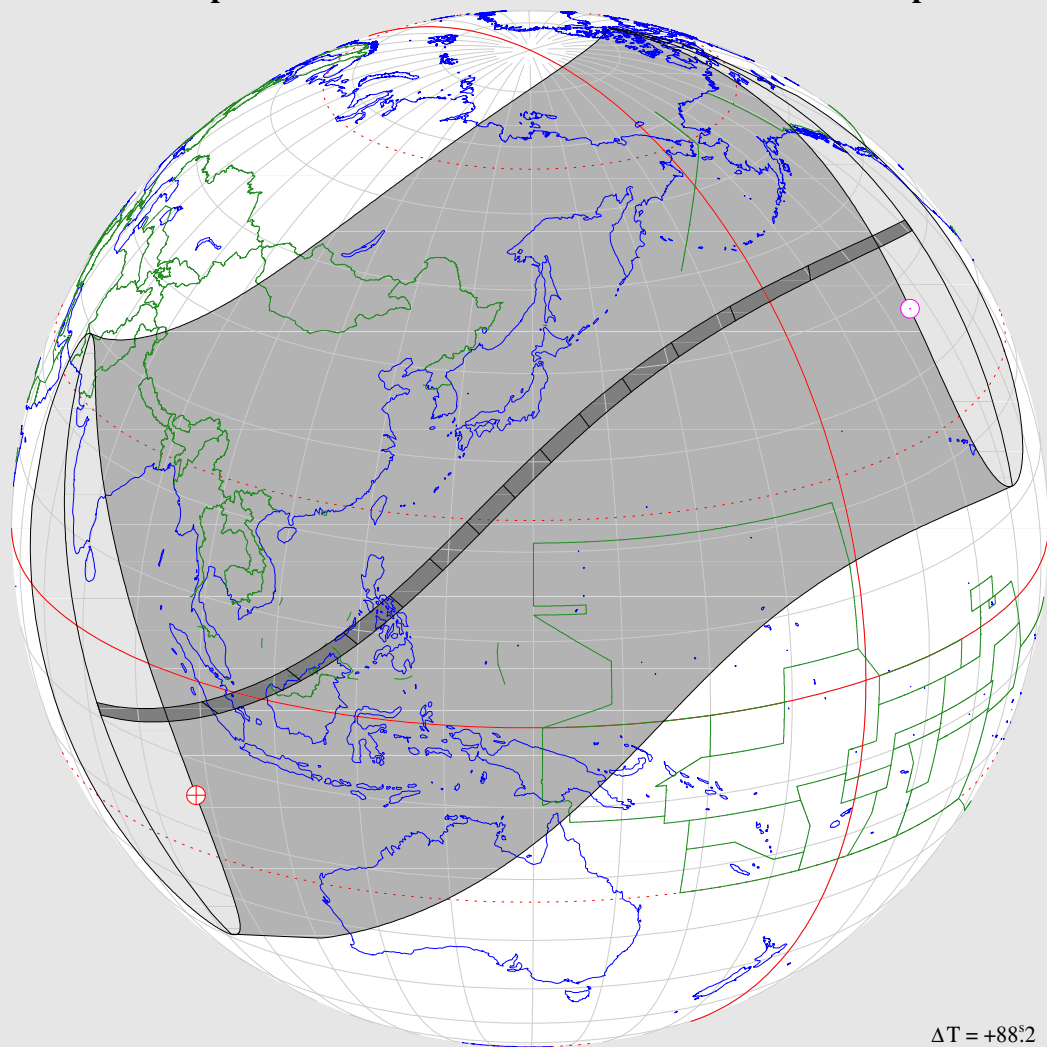


II. - Total Eclipse of the Sun

2042 April 19-20



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ΔT = +88:2
Globe centred on E 139°6 and N 22°6

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	23	40.3	E 97	47.1	S 14	54.2
Beginning of southern limit of penumbra	0	30.6	E 91	37.3	S 39	09.7
Beginning of southern limit of umbra	0	36.7	E 82	32.0	S 9	35.5
Beginning of centre line; central eclipse begins	0	37.2	E 82	16.4	S 8	54.2
Beginning of northern limit of umbra	0	37.7	E 82	00.5	S 8	12.7
Beginning of northern limit of penumbra	1	20.9	E 62	55.5	N 29	24.7
Central eclipse at local apparent noon	2	31.1	E 141	58.5	N 30	56.5
End of northern limit of penumbra	3	10.6	W 80	59.3	N 76	18.8
End of northern limit of umbra	3	54.2	W 137	46.3	N 43	09.8
End of centre line; central eclipse ends	3	54.7	W 138	09.0	N 42	29.7
End of southern limit of umbra	3	55.2	W 138	31.1	N 41	49.7
End of southern limit of penumbra	4	01.6	W 148	06.4	N 12	17.8
⊙ Eclipse ends; last contact with Earth	4	51.7	W 154	27.9	N 36	35.0